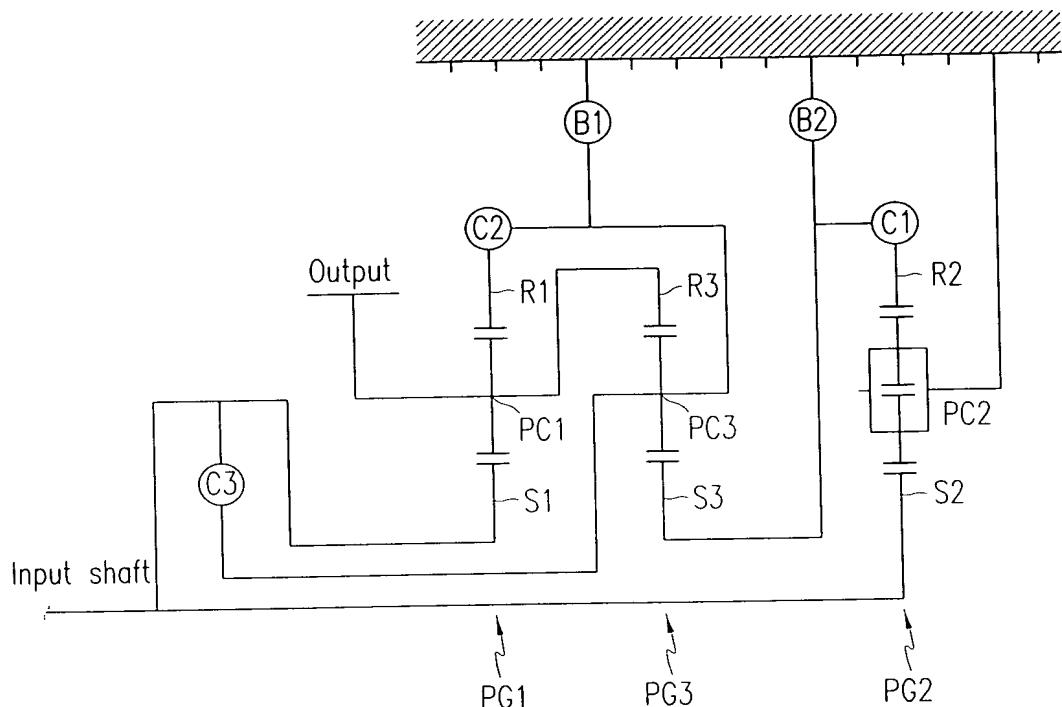


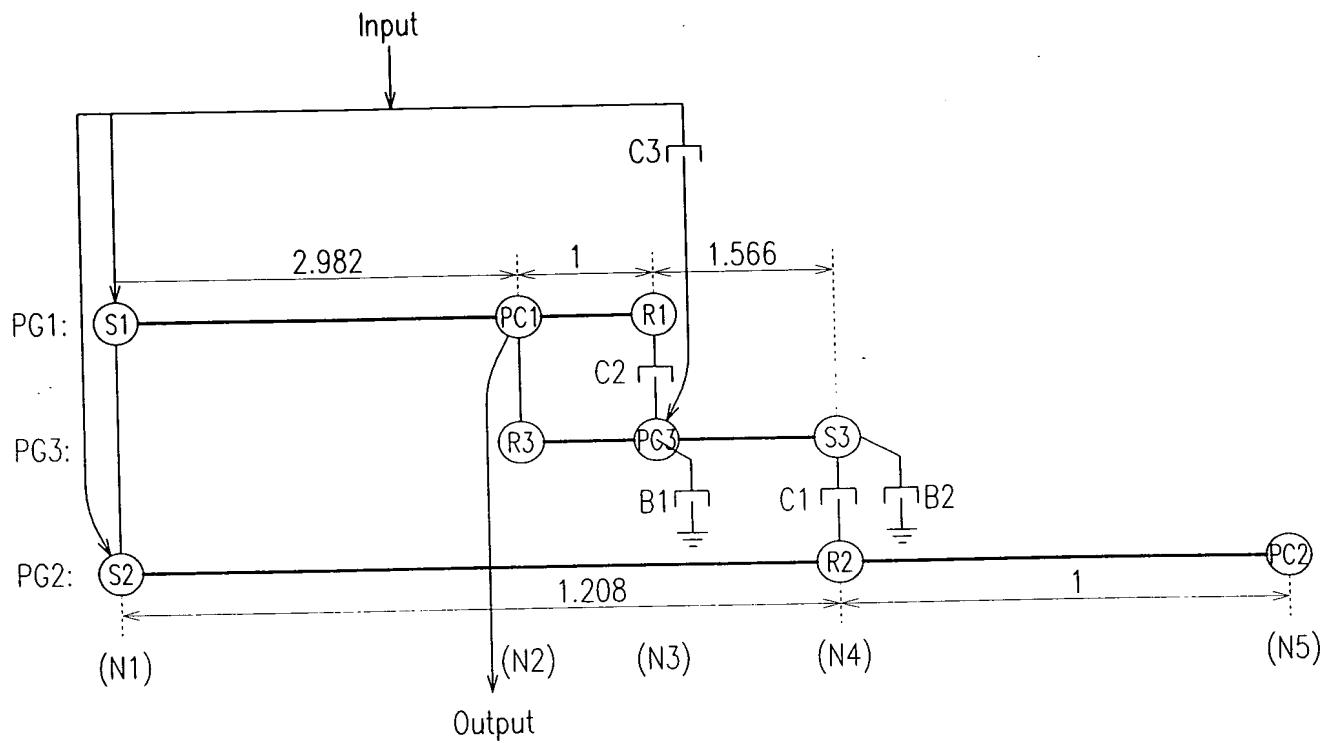
**FIG. 1**



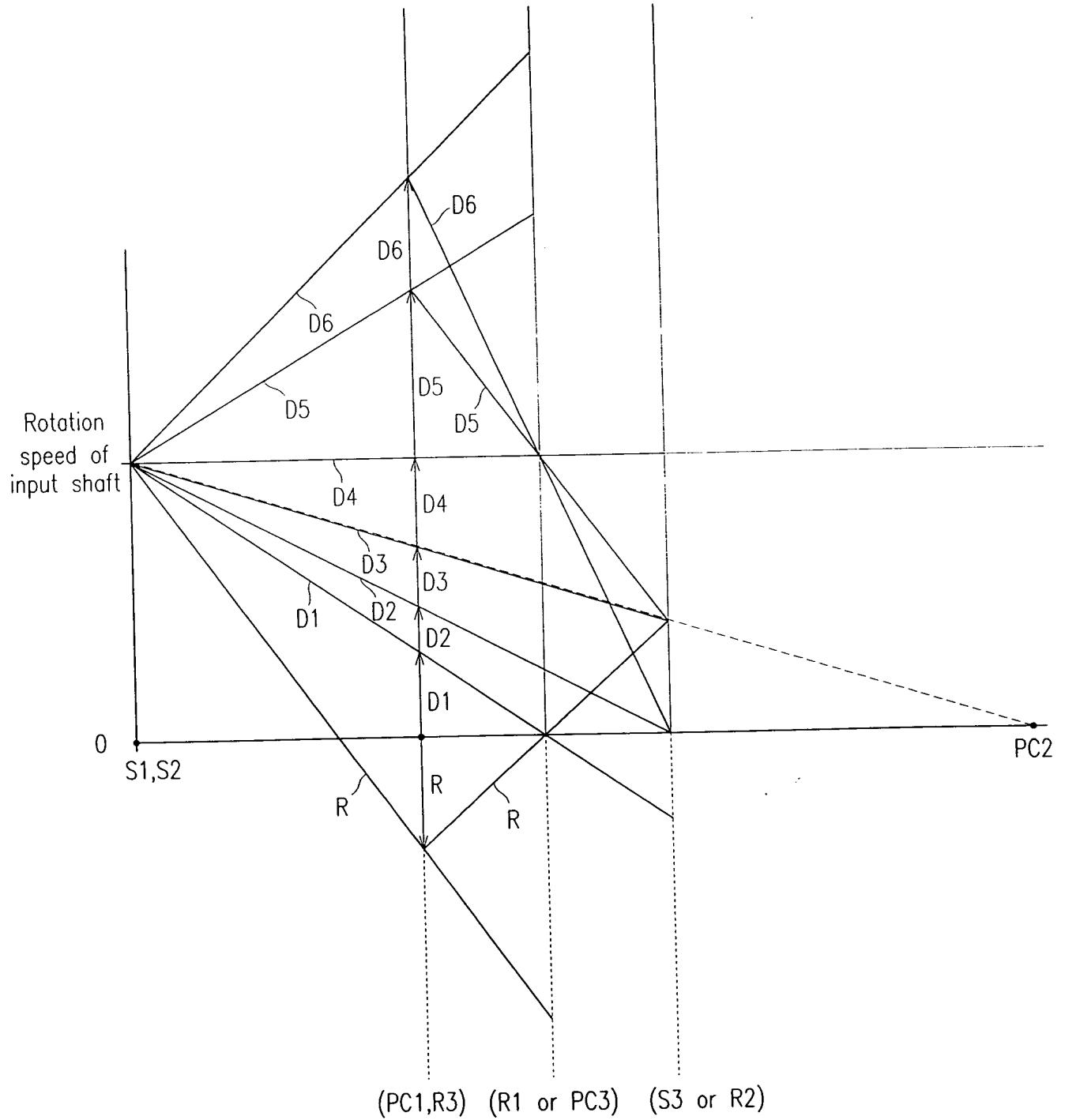
**FIG. 2**

	C1	C2	C3	B1	B2
D1		O		O	
D2		O			O
D3	O	O			
D4		O	O		
D5	O		O		
D6			O		O
REV	O			O	

**FIG. 3**



**FIG. 4**



**FIG. 5 A**

$Z_{R1}/Z_{S1} =$	2.982
$Z_{R2}/Z_{S2} =$	2.208
$Z_{R3}/Z_{S3} =$	1.566

**FIG. 5 B**

	Gear ratio
D1	3.982
D2	2.162
D3	1.417
D4	1.000
D5	0.741
D6	0.610
R1	-3.458

**FIG. 5 C**

Rotation speed of each element (relative to input element)

	S1	PC1	R1	S2	PC2	R2	S3	PC3	R3	N	OUT	P1	P2	P3
D1	1.000	0.251	0.000	1.000	0.000	0.453	-0.393	0.000	0.251	1.000	0.251	-0.756	-1.656	0.651
D2	1.000	0.463	0.282	1.000	0.000	0.453	0.000	0.282	0.463	1.000	0.463	-0.543	-1.656	0.468
D3	1.000	0.706	0.607	1.000	0.000	0.453	0.453	0.607	0.706	1.000	0.706	-0.297	-1.656	0.256
D4	1.000	1.000	1.000	1.000	0.000	0.453	1.000	1.000	1.000	1.000	1.000	1.000	-1.656	0.000
D5	1.000	1.349	1.000	1.000	0.000	0.453	0.453	1.000	1.349	1.000	1.349	0.353	-1.656	0.906
D6	1.000	1.639	1.000	1.000	0.000	0.453	0.000	1.000	1.639	1.000	1.639	0.644	-1.656	1.656
R1	-1.152	-0.289	0.000	1.000	0.000	0.453	0.453	0.000	-0.289	1.000	-0.289	-1.301	-1.656	-0.750

## **FIG. 5 D**

Slip speeds of non-operated friction elements (relative to input element)

	C1	C2	C3	B1	B2	SUM
D1	0.846	0.000	1.000	0.000	0.393	2.239
D2	0.453	0.000	0.718	0.282	0.000	1.453
D3	0.000	0.000	0.393	0.607	0.453	1.453
D4	0.547	0.000	0.000	1.000	1.000	2.547
D5	0.000	0.467	0.000	1.000	0.453	1.919
D6	0.453	0.853	0.000	1.000	0.000	2.306
R1	0.000	0.722	1.000	0.000	0.453	2.174
SUM	2.299	2.041	3.110	3.890	2.752	14.092

**FIG. 5 E**

Torque load (relative to input element)														
	S1	PC1	R1	S2	PC2	R2	S3	PC3	R3	C1	C2	C3	B1	B2
D1	1.000	-3.982	2.982	0.000	0.000	0.000	0.000	0.000	0.000	-2.982	0.000	2.982	0.000	
D2	1.000	-3.982	2.982	0.000	0.000	0.000	1.162	-2.982	1.820	0.000	-2.982	0.000	1.162	
D3	0.655	-2.609	1.954	0.345	0.417	-0.761	0.761	-1.954	1.192	0.761	-1.954	0.000	0.000	
D4	0.251	-1.000	0.749	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.749	0.749	0.000	
D5	0.000	0.000	0.000	-0.214	-0.259	0.473	-0.473	1.214	-0.741	-0.473	0.000	1.214	0.000	
D6	0.000	0.000	0.000	0.000	0.000	0.000	-0.390	1.000	-0.610	0.000	0.000	1.000	0.000	
R1	0.000	0.000	0.000	1.000	1.208	-2.208	2.208	5.666	3.485	2.208	0.000	5.666	0.000	

**FIG. 5 F**

Power transmission route

	PG1	PG2	PG3	SUM
D1	1	0	0	1
D2	1	0	1	2
D3	1	1	1	3
D4	0	0	0	0
D5	0	1	1	2
D6	0	0	1	1
R1	0	1	1	2
SUM	3	3	6	12